

# INTERNATIONAL SEARCH REPORT

In tional Application No  
PCT/IB2004/051996

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H01J9/00 H01J33/04 H01J5/18

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H01J B23K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal, PAJ, WPI Data, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US 2002/048344 A1 (BACHMANN PETER KLAUS ET AL) 25 April 2002 (2002-04-25) paragraphs '0028! - '0030!, '0032!; figures 1,2	1,2,9-12
X	US 5 478 266 A (KELLY ET AL) 26 December 1995 (1995-12-26) column 5, line 60 - column 6, line 24 column 16, line 46 - column 17, line 18; figure 7	1,3-5,7, 8,10
X	US 2002/048345 A1 (BACHMANN PETER KLAUS ET AL) 25 April 2002 (2002-04-25) paragraphs '0013! , '0028! ; claim 8; figures 1,2	1,10-12
	----- -/--	

☒ Further documents are listed in the continuation of box C

☒ Patent family members are listed in annex

\* Special categories of cited documents

'A' document defining the general state of the art which is not considered to be of particular relevance

'E' earlier document but published on or after the international filing date

'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

'O' document referring to an oral disclosure, use, exhibition or other means

'P' document published prior to the international filing date but later than the priority date claimed

'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

'X' document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

'Y' document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

'&' document member of the same patent family

Date of the actual completion of the international search

18 July 2005

Date of mailing of the international search report

26/07/2005

Name and mailing address of the ISA  
European Patent Office, P B 5818 Patentlaan 2  
NL - 2280 HV RIJSWIJK  
Tel (+31-70) 340-2040, Tx 31651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Krauss , J

# INTERNATIONAL SEARCH REPORT

Int      onal Application No  
PCT/IB2004/051996

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	US 2 010 712 A (COOLIDGE WILLIAM D) 6 August 1935 (1935-08-06) page 2, right-hand column, lines 9-17; figure 3 -----	2
A	DE 30 22 127 A1 (HAHN-MEITNER-INSTITUT FUER KERNFORSCHUNG BERLIN GMBH, 1000 BERLIN, DE) 7 January 1982 (1982-01-07) -----	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/IB2004/051996

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2002048344	A1	25-04-2002	DE	10050810 A1	18-04-2002
			EP	1197470 A2	17-04-2002
			JP	2002197973 A	12-07-2002
US 5478266	A	26-12-1995	US	5391958 A	21-02-1995
			AU	6531394 A	08-11-1994
			WO	9424691 A1	27-10-1994
us 2002048345	A1	25-04-2002	DE	10050811 A1	18-04-2002
			EP	1197983 A1	17-04-2002
			JP	2002156499 A	31-05-2002
us 2010712	A	06-08-1935	FR	40803 E	23-08-1932
			GB	388836 A	09-03-1933
DE 3022127	A1	07-01-1982	NONE		